

Final Statewide 303(d) Workload Assessment



David Roberts, Karol Erickson
and Will Kendra

Two Primary Obligations

- MOA
- CWA 303d - 1998 and on...

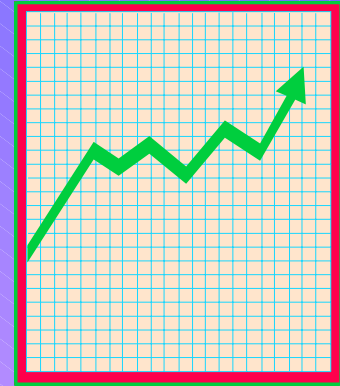


Process

- Captured key information for each 303(d) listing
- Grouped listings into projects
- Developed resource estimates for each project
- Evaluated regional, HQ and legal needs
- Identified efficiencies
- Compared total needs to existing resources

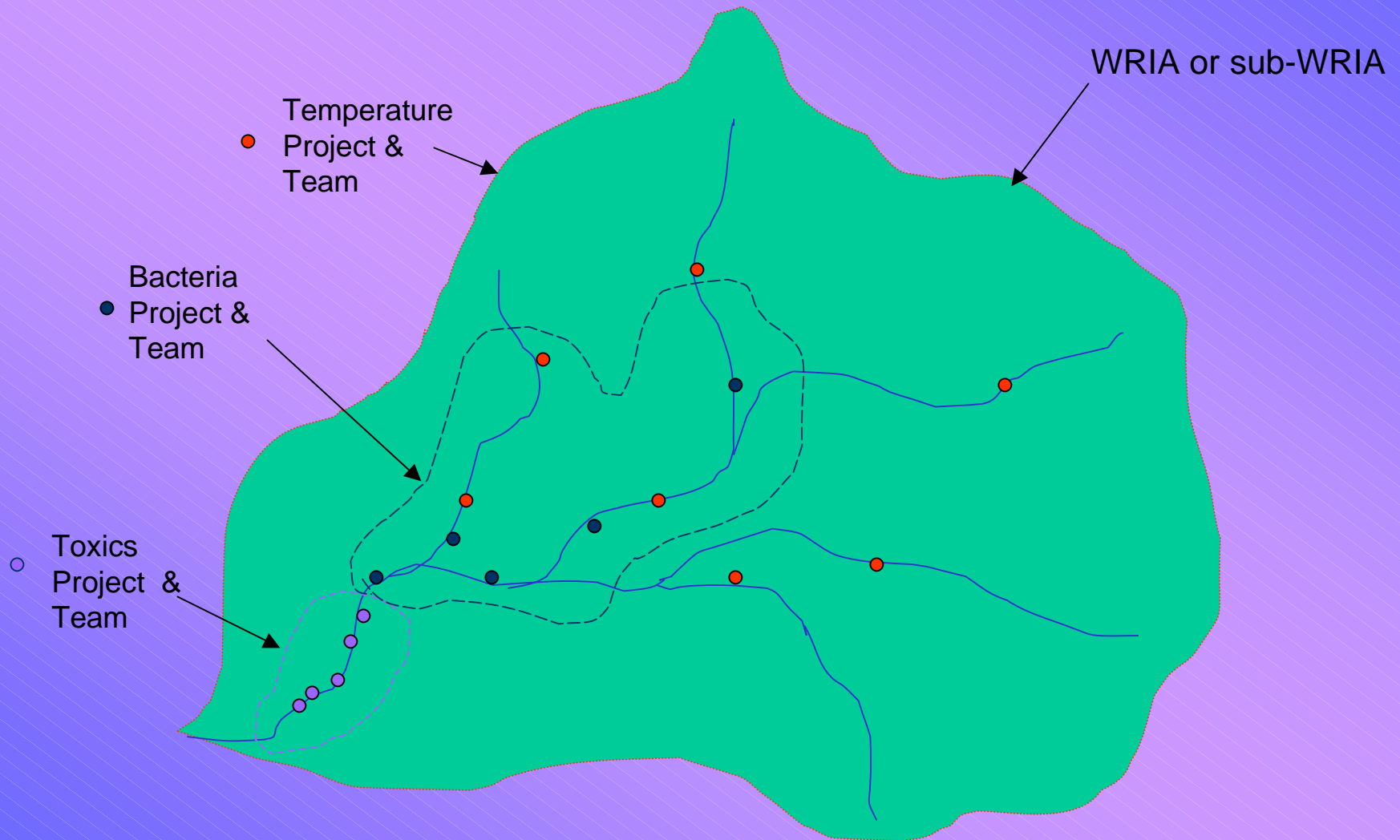


Technical efficiencies

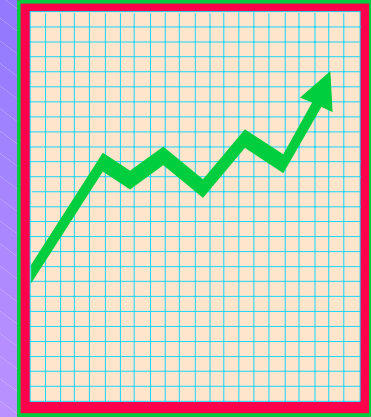


- Larger geographic areas, addressing the full suite of parameters.
- Avoid multiple entries into the watershed
- Gain economies of scale.
- Maximize the use of existing data
- Standardized, streamlined technical approaches
- Make reasonable decisions and move on

Geographic Based TMDL Coordination

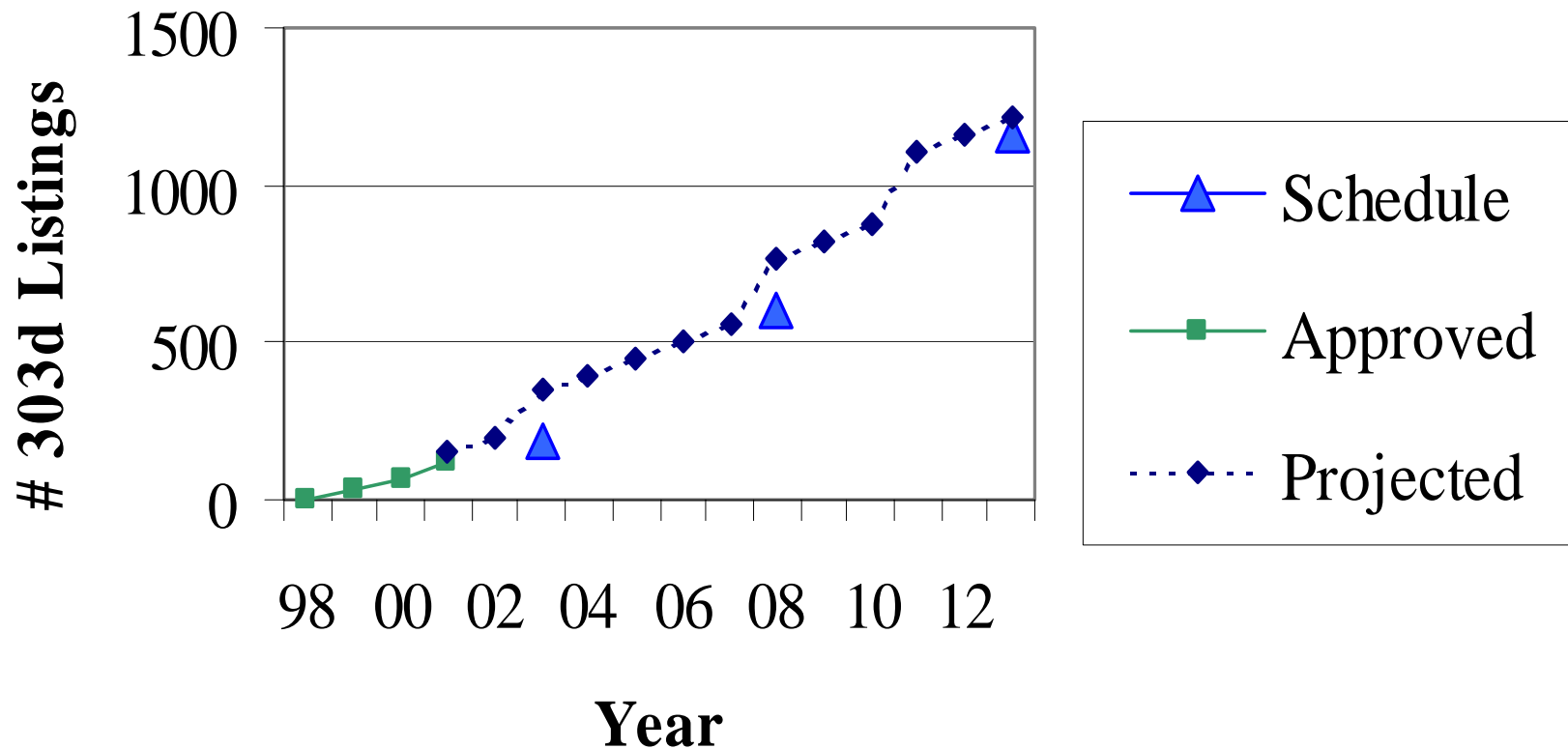


Organizational and Administrative Efficiencies



- Paperwork streamlining
- 2514 coordination
- Workload prioritization
- New resources
- Improved public involvement
- Accountability measures for management and staff (team coordination)

Comparison of Proposed MOA Schedule with Current Workload Capacity



Workload Model for Addressing 1998 303d List

TMDL Activity	Staffing Levels After 7/01 (FTE)	Total Projected Need¹ (FTE)	Deficit
Program Administration <ul style="list-style-type: none"> WQ HQ + AGO 	10.7	11.7	8.5%
Technical Analysis <ul style="list-style-type: none"> EAP (includes lab \$) 	33.2	49.8	33%
Planning Public Involvement & Implementation <ul style="list-style-type: none"> Regional WQ TCP² 	24.7 1.0	29.9 1.0	17% 0%
TOTALS	69.6	92.4	25%

Outstanding Issues



- Settlement agreement accounting
- Addressing stormwater in TMDLs
- Delegation of effectiveness monitoring
- Development of TMDLs for future listings

Conclusions



- Adequate resources to meet our MOA
- 25% short to address all 1998 listings
- We are implementing new workload model
- Many factors influence the outcomes

Getting Involved

- Focus on 1998 303d List
- WQMA cycle
- Contact Regional Leads

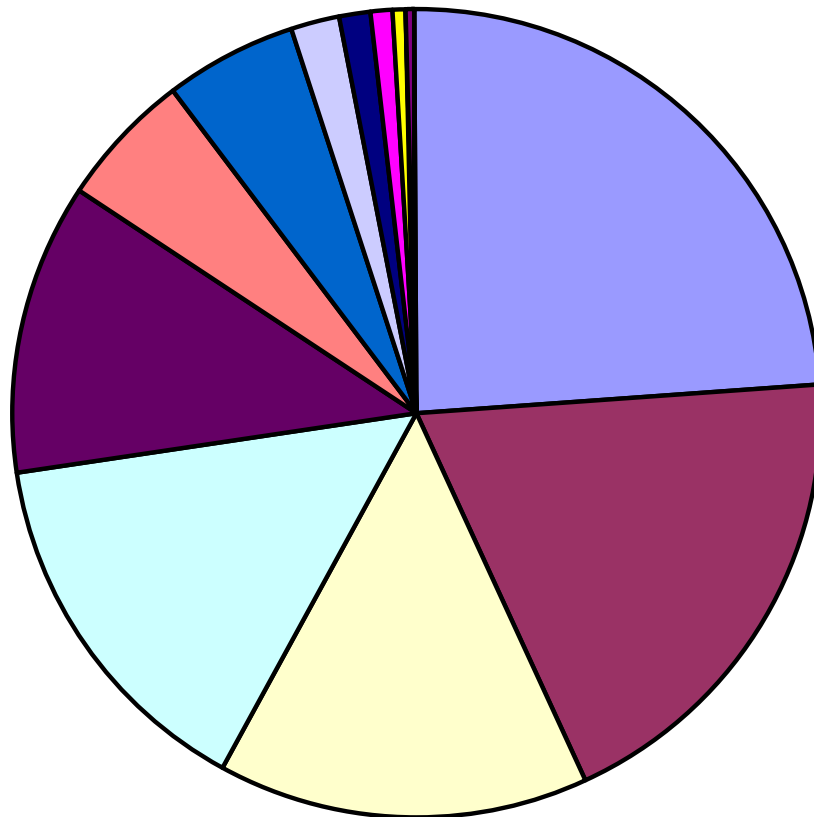


What's Next?

- Present information
 - Plaintiffs
 - WQ Partnership
 - Legislature
 - Tribes
- Schedule TMDL work through 2013
- Implement and revisit in 2003

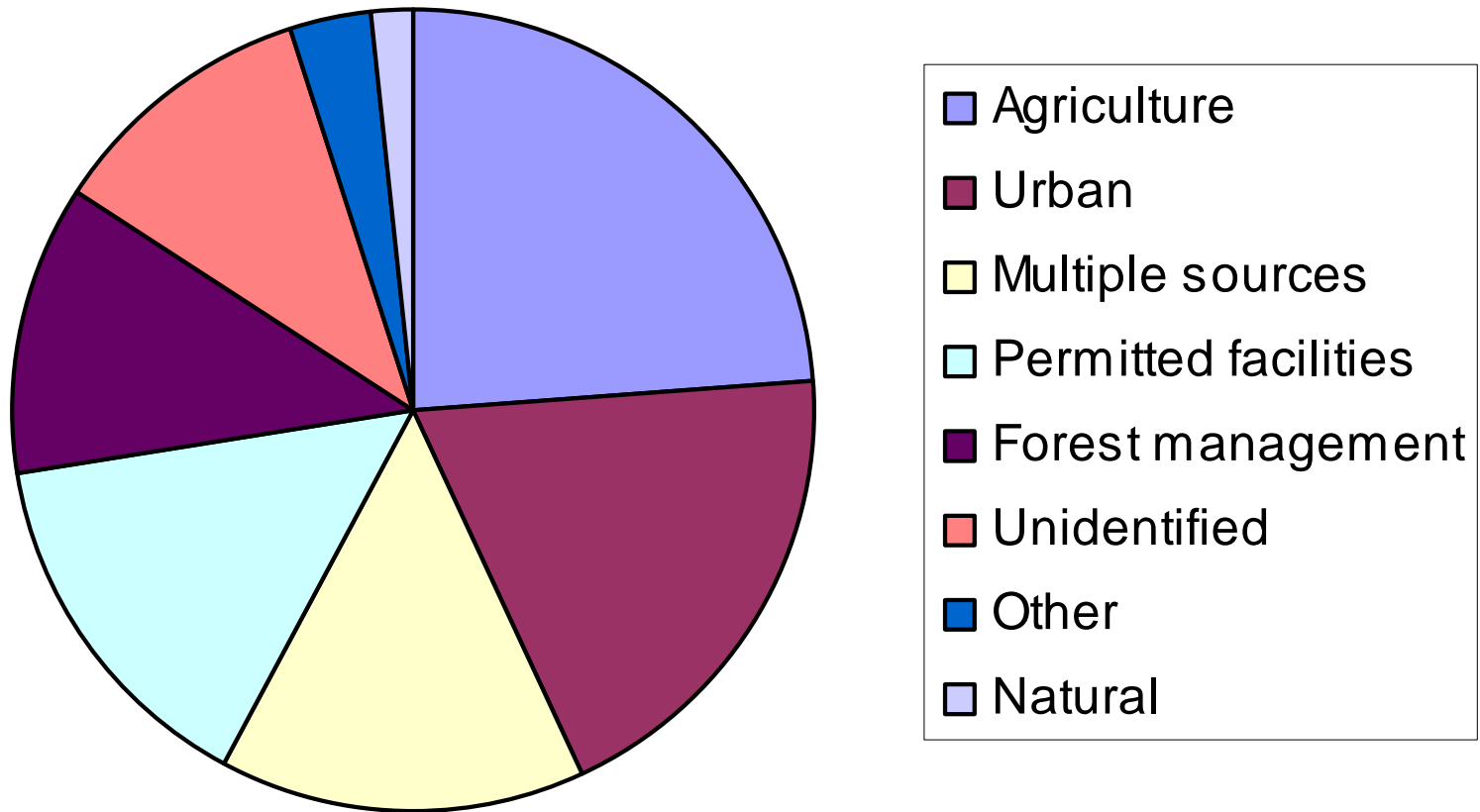


1998 303d Listings by Primary Suspected Source



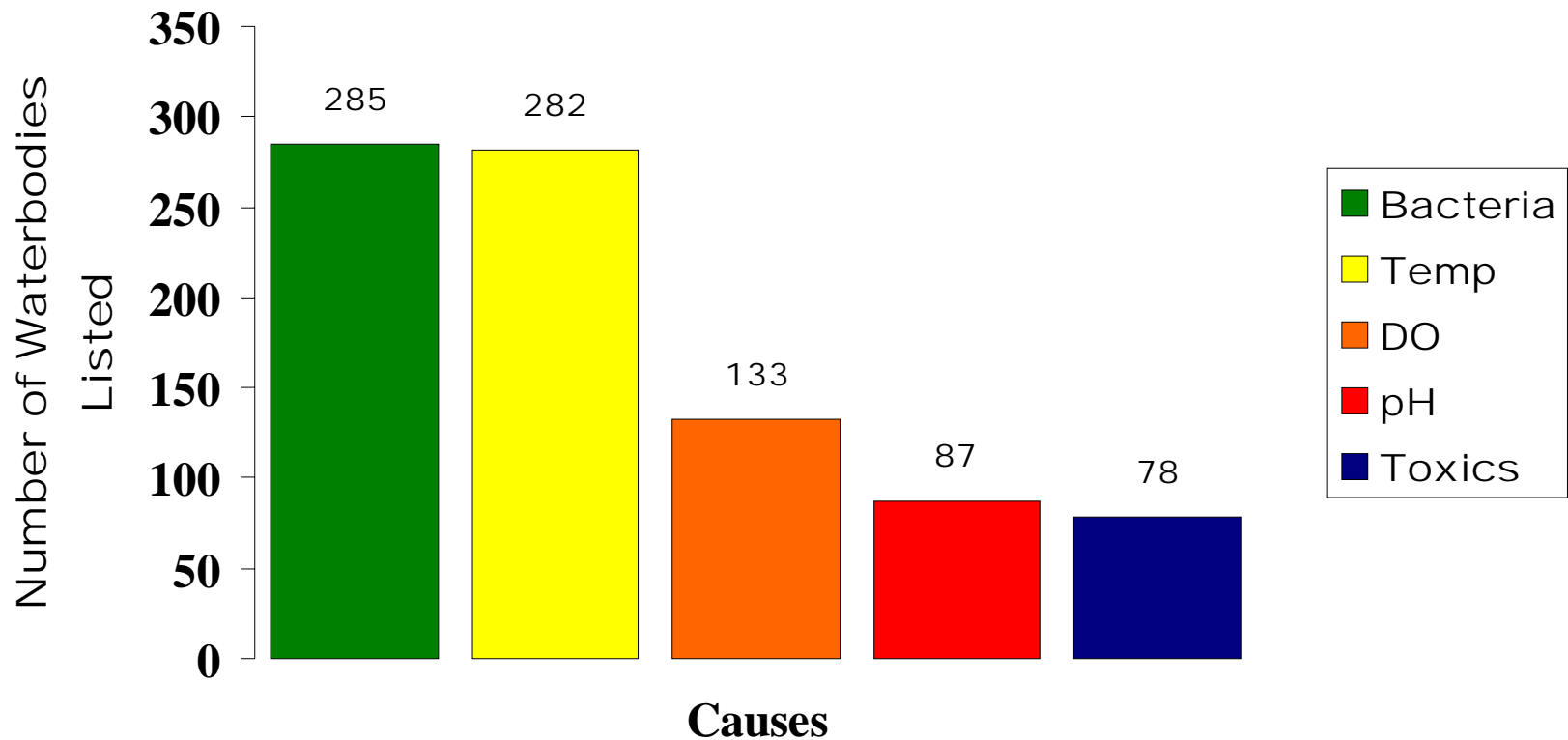
- Agriculture
- Urban
- Multiple sources
- Permitted facilities
- Forest management
- Unknown
- Unidentified
- Natural
- Onsite systems
- Hydropower
- Resource extraction
- Transportation
- Water withdrawals
- Not listed

1998 303d Listings by Suspected Source



1998 List of Polluted Waters

Major Causes of Listing



*1998 303(d) List of waters not meeting water quality standards

Mission

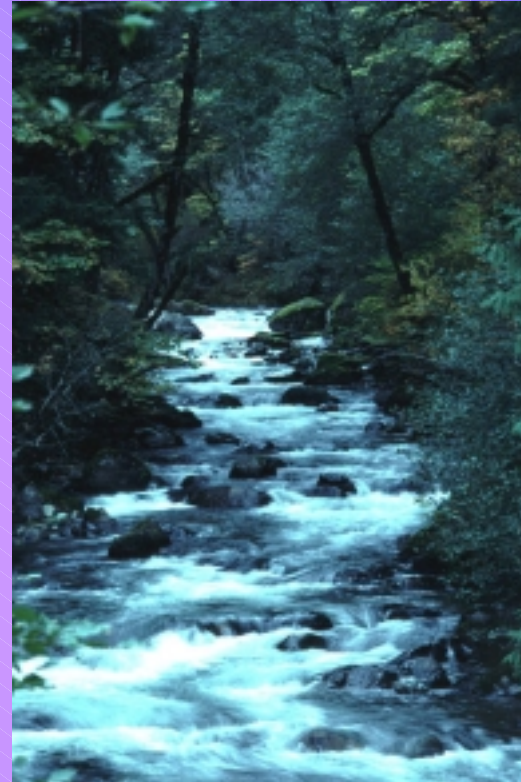


Determine if Ecology has the resources needed to meet the TMDL settlement agreement.

- ◆ Optimize for efficiency
- ◆ Compare needed resources to existing

Efficiencies

- Technical
- Organizational
- Administrative



Project Types



General Projects

- * Complex
- * Intermediate DO/FC
- * Lake
- * Nutrients
- * Sediment TMDL
- * Simple Nonpoint
- * Temperature
- * Toxics TMDLs
- * Other
- * Verification
- * Surrogate

Project Planning and Coordination



Major Partnerships

- King Co
- Navy
- USFS

Programmatic

- Forest and Fish

Regional Projects

- Marine
- Columbia/Snake River
- Columbia Basin

Irrigation Project

- Verifications for metals
and arsenic

Project Summary

Total listings in analysis = 1578

Total projects identified = 266

Not included projects above:

- >235 listings for TMDLs completed or underway
- 45 listings are for in-stream flow

Number of Listings by New 303(d) Rules Category

Category	Explanation	# Listings
1	Do a TMDL in future	1332
1u	TMDL underway*	134
2	Impaired by "pollution"	69
3	Approved TMDLs, not meeting stds	23
4	Effluent limits/enforceable controls	20

* Categories are consistent w/ new fed rules. We added "1u" for tracking purposes.